

VIBRACAST

cement tile
for interior and exterior

nationally distributed by **BURKE, ANZINI and COURT** company, inc.

4d
Bu

walls

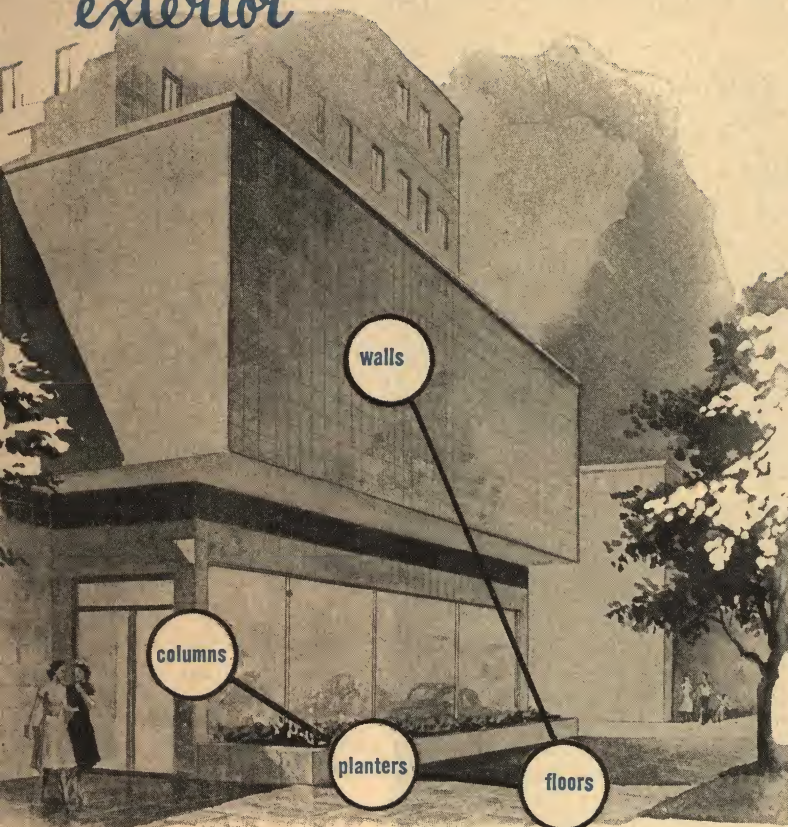
floors

ceilings

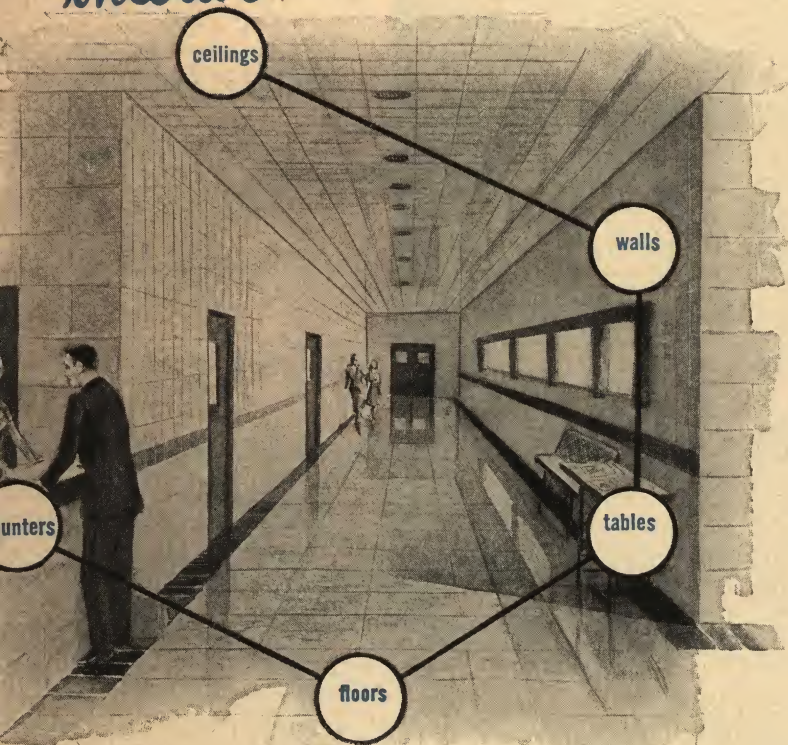
trim

a hard finish cement tile for walls, floors and ceilings

exterior



interior



■ advantages

smooth, highly reflective finish that provides a marble-like facing with stylized color blends.

economical to install . . . with either mortar or adhesive cement.

stainproof surface is easily maintained for permanent color and surface smoothness. Impervious to most cleaners, acids and solvents.

produced by an exclusive process which assures permanent durability; meets standard size specifications and dimension tolerances.

fills the need for style, permanence and practical economy.

large units provide the architect with limitless design possibilities at a fractional cost of marble, granite or architectural terra-cotta.

■ features

colors: Full range of decorator and pastel colors. Custom colors to meet specification are manufactured at no additional costs. Uniformity is maintained and existing colors can be matched in future orders.

textures: Standard smooth (with a high gloss finish) and the antique marble type textures offer a surface that is easily cleaned and safe to walk on when used as a floor or exterior walk.

standard sizes:	6" x 6"	} 1/2" thick
	6" x 12"	
	12" x 12"	
	18" x 18"	
	24" x 24"	} 1 1/8" thick

Special sizes also available.

special shapes:	3 1/2" x 3 1/2"	{ corner butterfly corner
	3 1/2" x 12"	
	6" x 12"	{ 1/2" radius corner 1/2" radius bullnose
	12" x 12"	
	18" x 18"	{ 1/2" radius corner 1/2" radius bullnose
	24" x 24"	
		{ Edges are fully colored permitting use as both corners or bullnose.

■ applications

building types: VIBRACAST is designed and manufactured to meet the decorative and functional requirements called for in schools, hospitals, banks, churches, restaurants, motels, laboratories, manufacturing plants, apartment houses, theaters, tunnels, public buildings, etc.

parts of buildings: Floors, walls, baths, hearths, store fronts, patios, walkways, tabletops, feature trim, etc.

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■ tests *

chemical resistance: The following chemicals were applied to the surface area and no visible effects were noted:

Sulfuric acid 20%	Ammonium Hydroxide 60%
Acetic Acid 35%	Xylol
Hydrogen Peroxide 3%	Lye

VIBRACAST is resistant to lubricating oils, gasoline, fats, grease and waxes.

Lipstick, pencil, crayon, ink, citrus juices, chalk marks are easily removed.

100 washings with a solution of brown soap and CN maintained its high surface sheen.

rate of absorption: After sealing VIBRACAST with the recommended commercial product, water is easily shed from the surface. When water droplets were allowed to stand and then dry on the surface no water spotting was noticed.

impact resistance: A 10 ounce steel ball (1½" dia.) was dropped from a height of 12 feet. No fractures or cracks occurred and only a minor indentation was evidenced.

abrasive resistance: VIBRACAST was found to be superior to most "natural" materials. (Slate, marble, limestone, etc.)

efflorescence: A black VIBRACAST unit was allowed to stand exposed to the elements along with a comparable cement product and no efflorescence occurred on the VIBRACAST unit while extreme efflorescence was noted on the other product.

fade resistance: Comparisons with areas of VIBRACAST installed as long as six years ago show no appreciable fading.

comparison strength: VIBRACAST unit ½" thick withstood a maximum compression load of 2359 PSI—average 2200 PSI.

* Tests were conducted by an independent testing laboratory. Transcripts furnished on request.

■ methods of installation

mortar: Using the mix proportions as recommended in the specifications VIBRACAST can be applied over most surfaces without the use of anchoring devices. When anchors are a necessity several devices can be used. Our staff, especially trained to assist you, is available for consultation.

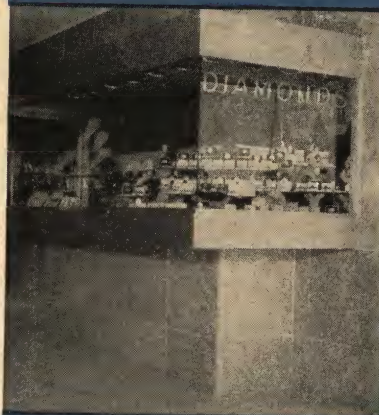
adhesives: VIBRACAST's close allowable dimensional tolerances make it possible to apply the 12 x 12 units to any smooth surface with adhesives by using the buttering technique.



16" x 18" squares antique white—Forest Hills, N. Y.
architects: Schulman & Soloway owner: Lefrak Organization



6" x 24" special cut antique white—
Britton Theater, Plaza shopping center
builder: R. M. Thompson Co., Clearwater, Florida



Blue 24" x 24" square smooth blue
standard (jewelry store)



24" x 24" buff antique (bakery)
Southeastern Engineering Co.

Northgate Shopping Center, Florida

■ VIBRACAST cement tile specifications

general conditions

The General Conditions are hereby included in and made part of this section of the Specifications, whether attached hereto or not.

scope of work

Contractor shall provide all materials, labor and equipment necessary to furnish, deliver and lay all VIBRACAST units and related work wherever such units are required by drawings and these specifications.

description

VIBRACAST, as described in these specifications, shall be manufactured by TROPICAL TILES, INCORPORATED of Orlando, Florida, and distributed in Florida under the registered trademark of "TropicTile," or one of its licensees. The backing shall be a mixture of cement and aggregate to provide adequate adherence properties.

sizes

The tiles shall be of the following sizes: (. . . insert here the sizes to be installed . . .) 6" x 6", 6" x 12", 12" x 12", 18" x 18", 24" x 24".

texture and samples

The facing and between one-sixteenth (1/16) and one-eighth (1/8) of an inch of all sides adjacent to the facing shall have a smooth finish. The blend intensity of colors and texture of the finished face shall conform to a group of approved sample tiles of not less than seven (7) such samples provided by the supplier for examination. These samples shall indicate the entire range of color variance.

protection of the tiles on the job

VIBRACAST shall be given adequate protection against the elements, improper stacking and breakage. Each Contractor is responsible for providing and maintaining such protection. The tiles shall be packed in protective containers at all times while in transit.

delivery and storage

VIBRACAST units shall be handled by hand, and shall not be dumped from trucks, wheelbarrows, or other conveyance. The tiles shall be stored on planks at least four (4) inches off the ground, stacked on edge with the tile sides face to face and in such a manner, as far as practical, as to permit ventilation; and they shall be covered with tarpaulin for adequate protection from the weather. The tiles shall be prevented from freezing. An orderly stacking of the tiles shall be employed for arrangement of separate stacks for the various sizes and colors. A space of at least two (2) inches shall be left between stacks to permit maximum ventilation.

materials used, workmanship and finish

The facing of the tile shall be of white cement along with pure mineral oxide pigments and coarse white sand as aggregate. Where dark colors are used, gray cement is used.

The face of the tiles that are exposed when in place shall be free from cracks extending to facing of the tile. The face of the tile shall be free from any other imperfections that would detract from its appearance when set in a finished wall or ceiling and viewed from a distance of three (3) feet.

Backing of tiles shall be of gray cement, sand and small rock aggregates and shall be free of cracks longer than three-quarters (¾) of an inch.

mortar materials

Sand shall be free from salt that would cause efflorescence. Coloring materials shall be approved, non-fading and lime resistant mineral pigments.

mixing mortar

FLOORS: Mortar shall be mixed by volume, in proportions of four (4) parts sand and one (1) part Portland cement, adding only enough water to obtain a damp mortar (not dripping wet). No specific thickness shall be called for, but it is understood that the minimum shall be ¾ inch and the maximum 1½ inches, in order to allow the proper bed between the rough concrete slab and VIBRACAST.

WALLS: Mortar shall be mixed, by volume, in proportions of two (2) parts sand and one (1) part masonry mix, with sufficient water added to secure satisfactory bond. This mix shall be applied by trowel or other suitable tool to the wall surface.

setting

Prior to installing VIBRACAST Floors, the rough concrete slab shall be thoroughly cleaned with a coarse broom so that all dirt and particles of dirt and lime are removed. Then the rough concrete slab shall be given a good sprinkling of clean water before the cement bed is laid to receive the VIBRACAST in order to insure proper uniform adhesion between the cement bed and the concrete slab. The thickness of the bed should be no less than three fourths (¾) inches and no greater

than two (2) inches, in order to allow proper setting of the VIBRACAST. VIBRACAST may be set over wood floors with sound foundation by covering the floors with thirty (30) pound asphalt roofing paper and then with a suitable metal lath mesh wire placed over the roofing paper and tacked down tight and firm. Mortar mixture is then applied over the prepared surface in the same manner as though the tile were being set on a rough concrete slab as described in preceding paragraph.

The tile should be tapped with a rubber mallet until firmly bedded to the proper level of the floor. The joints between the tile should be approximately three-sixteenths (3/16) inch. Before setting the tile in the bed, the tile should remain in soak, in clear water for a period of at least fifteen (15) minutes and no longer than forty-five (45) minutes; and upon removal from soak, and after draining, the back of the tile should be thoroughly buttered with a thin layer of paste consisting of gray Portland cement and water.

The following conditions and/or requirements shall be met:

- a chippage (breaking off of parts of the facing composition)—maximum allowable:

as measured along edges of the face	1/16" down side 1/8" along edge
as measured from the corner	3/16" in all directions

- b dimension tolerances:

The dimension of the individual tiles shall not vary from standard dimensions by more than the following:

	dimension	inch variance from standard dimension
size	5-7/8" square { or smaller or larger	±1/16" ±1/8"
thickness	1/2" 1/2" or greater	±1/16" ±3/16"

- c distortion tolerances:

Maximum permissible distortion tolerances of the variation away from a plane surface or from a straight line resting across the surface of the tile:

5-7/8" square tile	{ or smaller 1/16" maximum or larger 1/8" maximum
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- d compressive strength in PSI.*

5-7/8" square tiles	{ and smaller Average 2200 PSI Minimum 2121 PSI and larger Average 2100 PSI Minimum 2070 PSI
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* This compression test was conducted by an accredited Testing Laboratory in accordance with Federal Specification SS-C-621.

After the tile is installed, the floor should be kept protected for approximately twenty-four (24) hours, after which tile can be grouted.

Grouting is best accomplished by liquid mixture of pure cement, water, and a fine grain washed sand. This liquid should be poured into the joints, care being exercised to keep as little grout from the tile face as possible. Grout shall not be permitted to get into the mineral oxide indentation of the "antique" pattern of VIBRACAST. Grout may be smoothed into the joints with a wet sponge or suitable tool.

After the joints have been properly filled and excessive concrete removed, cement or mortar film on the surface of the tile shall be cleaned with damp burlap rag.

cleaning after installation

Contractor shall dry wipe the face of each VIBRACAST unit as laying progresses.

Removal of foreign material shall be done before it has a chance to harden on the face of the tile.

cleaning and protection

Following the completion of the floor installation, the tile should be observed for several days to detect the stage of drying. When the face of tile has assumed uniform or nearly uniform appearance, then the tile should be cleaned with a solution of one (1) part water to nine (9) parts Hillyard's "Super-Shine-All." This preparation is applied directly to the surface of the tile with a "zero" gray steel wool tab, rubbing briskly over the tile to loosen any mortar or foreign matter. After this cleaner remains on the surface for a minimum of thirty (30) minutes, it should be rinsed off with clean cloths and clear water. Following this cleaning operation, the surface of VIBRACAST should be protected by applying Hillyard's "Onex Seal" (natural), using an electric, rotary brush machine for buffing and polishing.

nationally distributed by

BURKE, ANZINI and COURT company, inc.

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Orlando, Florida

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